Omid Hosseini Jafari

Curriculum Vitae

Personal Information

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Homepage   https://ohosseini.github.io

Education

2015–Present   **Ph.D. candidate,** *Heidelberg University,* Heidelberg, Germany.
Scene Understanding

2011–2014   **Masters of Science,** *RWTH-Aachen University,* Aachen, Germany.
Media Informatics
Thesis Title – "Improving depth based people detection for mobile robotics"

2005–2009   **Bachelor of Science** *Azad University - South Tehran Branch,* Tehran, Iran.
Software Engineering
Thesis Title – "Face recognition using appearance based methods"

Research Interests

Computer Vision, Machine Learning, Deep Learning, 2D/3D Scene Understanding, Domain Adaptation

Publications (top ones are marked by →)

CVPR 2019   **Localizing Common Objects Using Common Component Activation Map**
Weihao Li, <u>Omid Hosseini Jafari</u>, Carsten Rother
Computer Vision and Pattern Recognition (CVPR) Explainable AI Workshop, Jun. 2019

→ACCV 2018   **Deep Object Co-Segmentation**
<u>Omid Hosseini Jafari</u>*, Weihao Li*, Carsten Rother
(* *equal contribution*)
Asian Conference on Computer Vision (ACCV), Dec. 2018

→ACCV 2018   **iPose: Instance-Aware 6D Pose Estimation of Partly Occluded Objects**
<u>Omid Hosseini Jafari</u>*, S.K. Mustikovela*, K. Pertsch, E. Brachmann, C. Rother
(* *equal contribution*)
Asian Conference on Computer Vision (ACCV), Dec. 2018

→ICCV 2017   **Bounding Boxes, Segmentations and Object Coordinates: How Important is Recognition for 3D Scene Flow Estimation in Autonomous Driving Scenarios?**
<u>Omid Hosseini Jafari</u>*, A. Behl*, S. K. Mustikovela*, H. Abu Alhaija, C. Rother, A. Geiger
(* *equal contribution*)
International Conference on Computer Vision (ICCV), Oct. 2017

VMV 2017   **Semantic-Aware Image Smoothing**
Weihao Li, <u>Omid Hosseini Jafari</u>, Carsten Rother
International Symposium on Vision, Modeling and Visualization (VMV), Sep. 2017

→ICRA 2017	**Analyzing Modular CNN Architectures for Joint Depth Prediction and Semantic Segmentation** Omid Hosseini Jafari, Oliver Groth, Alexander Kirillov, Michael Y. Yang, Carsten Rother IEEE International Conference on Robotics and Automation (ICRA), June 2017
ICRA 2016	**Real-Time RGB-D based Template Matching Pedestrian Detection** Omid Hosseini Jafari, Michael Y. Yang IEEE International Conference on Robotics and Automation (ICRA), June 2016
→ICRA 2014	**Real-Time RGB-D based People Detection and Tracking for Mobile Robots and Head-Worn Cameras** Omid Hosseini Jafari, Dennis Mitzel, Bastian Laibe IEEE International Conference on Robotics and Automation (ICRA), June 2014

Skills

Programming Languages	C/C++, Python, C#, Basic(Commodore64, GWBasic, QBasic, Visual Basic), Pascal, Java
Tools	Pytorch, Tensorflow, CAFFE, MATALB, CodeVision, AVR, PSpice
Operating Systems	Linux/Unix, Windows, MS-DOS
Graphics Design	3D Studio, 3DS max, blender, ZBrush, Maya

Research Experiences

2016 - 2019	**Research Supervision and Teaching Assistant**, TU Dresden and Heidelberg University Master thesis supervision Computer Vision Lecture
July 2016	**International Computer Vision Summer School (ICVSS) 2016**
June 2013	**CVPR 2013 Demo** *Mentors: Dr. Dennis Mitzel, Prof. Bastian Leibe* Online People Detector and Tracker
Apr. 2013 - Aug. 2013	**Lab Project**, Fraunhofer IAIS, Bonn, Germany *Mentor: Dr. Rolf Bardeli* Video processing and augmented reality.
Oct. 2012 - Apr. 2013	**Lab Project**, Human Language Technology and Pattern Recognition Group *Mentor:* Prof. Hermann Ney Automatic Speech Recognition
Mar. 2012 - Oct. 2014	**Student Research ASsistant**, Computer Vision Lab at RWTH Aachen University, Germany *Advisor: Prof. Bastian Leibe* Multiple pedestrian detection and tracking.
2006 - 2009	**ACM ICPC** as Participant and Mentor
2006 - 2009	**Teaching Assistant**, Azad University, Tehran, Iran Fundamentals of Programming (C++), Data Structure, introduction to algorithms, Logical Circuits

References

Ph.D. Advisor	Dr. Prof. **Carsten Rother**, *Visual Learning Lab*, Heidelberg University, Germany. ✉ carsten.rother@iwr.uni-heidelberg.de
Research Mentor	Prof. Dr. **Andreas Geiger**, Max Plunk Institute and University of Tübingen, Germany. ✉ andreas.geiger@tue.mpg.de
Research Mentor	Dr. **Michael Ying Yang**, University of Twente, Netherlands. ✉ michael.yang@utwente.nl
M.Sc. Advisor	Prof. Dr. **Bastian Leibe**, *Visual Computing Institute*, RWTH Aachen University, Germany. ✉ leibe@vision.rwth-aachen.de